



ibi™ FOCUS®

Adapter for Teradata Installation

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Before You Begin

Before you begin to install the Adapter for Teradata, you should be aware of installation prerequisites and consider maintenance procedures that may affect the installation process. This chapter describes these pre-installation requirements.

This guide assumes that the person performing the installation and maintenance procedures has a working knowledge of z/OS. Knowledge of FOCUS® and the Structured Query Language (SQL), with the exception of the SQL GRANT command, is not required.

The Teradata database administrator (DBA) will need to provide site-specific information, such as storage and table or view names required for the SQL GRANT command.

Read this guide thoroughly before installing the adapter to ensure correct installation.

Pre-installation Requirements

You need to have the correct software installed and know how to issue the SQL GRANT command in order to install the adapter.

Software Requirements

Before you install the adapter, please review the following list of software requirements:

- Teradata must be installed and working. If it is not, contact your Teradata database administrator. The adapter may be used with any version of Teradata supported by Teradata Corporation.
- FOCUS must be installed on your system. If it is not, contact your FOCUS database administrator or consult your FOCUS installation guide for instructions on installing FOCUS.

You also need to know your FOCUS release and Service Pack level. Every time you invoke FOCUS, the banner displays the release.

- Your FOCUS and Teradata maintenance must be up to date.

- The Adapter for Teradata can be installed as read-only or read/write. In read-only mode, the adapter can retrieve data from tables and views but cannot apply updates to them. In read/write mode, the adapter can both read and update tables and views.

Native SQL Requirement

GRANT is a native SQL command that authorizes users to access Teradata tables. As a run-time requirement, this command must be issued after the adapter is installed. It is also required for the AUTODBC facility in order to allow access to the Data Dictionary and Directory system tables.

You need to know the command syntax and have authorization for the tables or views and plans or modules in question. If you are unfamiliar with the GRANT command, contact your Teradata database administrator for assistance.

Note: Additional privileges may be required to use two adapter features, FOCUS CREATE FILE and ON TABLE HOLD FORMAT SQLDBC, which dynamically creates Teradata tables with indices.

Maintenance

There are no maintenance procedures that must be performed regularly to ensure the proper functioning of the adapter. However, three situations that require adapter maintenance may occur:

- If you install a new release of FOCUS (including maintenance releases), you must also reinstall the adapter.
- If you receive a Hotfix or Service Pack that affects the adapter, it will be accompanied by a cover letter containing installation instructions. If you still have installation questions after reading the cover letter, contact Information Builders Customer Support Services or check InfoResponse Online. For instructions, see [Preface](#).
- If you install a new version of Teradata, you must reinstall the adapter.

Installing the Adapter for Teradata

Accessing Teradata requires at least one additional file that must be made available in the ERRORS allocation. This configuration file is a member named EDASERVE.

Create the Adapter Configuration Files

The Adapter requires one configuration file named EDASERVE. In addition, if you want to set a default connection to Teradata, you can create another configuration file named FOCPROF.

The two members can either be placed directly in the **hlq**.ERRORS.DATA data set (which is an alias of **hlq**.CONF.CFG), or they can be placed in a separate Partitioned DataSet (PDS) and be concatenated to **hlq**.ERRORS.DATA in your CLIST or JCL.

The EDASERVE Configuration File

Create a member named EDASERVE and place it in the data set **hlq**.ERRORS.DATA, where **hlq** is the high-level qualifier under which you installed FOCUS. Note that **hlq**.ERRORS.DATA is an alias for **hlq**.CONF.CFG.

The EDASERVE member must contain the following attributes.

```
dbc_cli = y
dbc_access = y
```

Create the FOCPROF Configuration File (Optional)

If you want to set a default connection to Teradata for all users, create another member named FOCPROF in **hlq**.ERRORS.DATA. Include the SET CONNECTION_ATTRIBUTES

command in member FOCPROF.

```
-SET &CONSTR='location/username,password';  
ENGINE SQLDBC SET CONNECTION_ATTRIBUTES &CONSTR  
END
```

Where:

&CONSTR

Is set to the logon attributes needed to connect to the Teradata instance from which you are reporting. Get this information from your Teradata Database Administrator (DBA). Replace **location**, **username** and **password** with the correct values that are applicable at your site.

Note: If you are passing a username, but no password, you still need to include the comma (,), which will end the line in a comma-semicolon combination (,;).

Grant Access to Teradata Tables and Views

GRANT is a native SQL command that authorizes users to access Teradata tables. As a run-time requirement, this command must be issued after the adapter is installed. It is also required for the AUTODBC facility to allow access to the Data Dictionary and Directory system tables.

You need to know the command syntax and have authorization for the tables or views and plans or modules in question. If you are unfamiliar with the GRANT command, contact your Teradata database administrator for assistance.

To distribute SELECT privileges, issue the following command.

```
GRANT SELECT ON object_name TO {userid|PUBLIC} ;
```

Where:

object_name

Is the name of the Teradata table or view.

tuserid

Is an authorized user ID for an individual user.

PUBLIC

Allows all users to access the specified table or view.

Note: Additional privileges may be required to use two adapter features, FOCUS CREATE FILE and ON TABLE HOLD FORMAT SQLDBC, which dynamically creates Teradata tables with indices.

Create a CLIST or Job to Invoke FOCUS and Verify Adapter Installation

You must create a batch job or CLIST that you can use to invoke FOCUS with the adapter.

Creating a Batch Job to Invoke FOCUS

Create a job by adding a JOB card and editing the following sample JCL to conform to the standards at your site.

```

job card goes here
//SQLMX      EXEC PGM=FOCUS,REGION=0M
//STEPLIB    DD DSN=h1q.FOCLIB.LOAD,DISP=SHR
//ERRORS     DD DSN=h1q.GOOD.DBCCLI.CFG,DISP=SHR
//           DD DSN=h1q.ERRORS.DATA,DISP=SHR
//FOCLIB     DD DSN=h1q.FOCLIB.LOAD,DISP=SHR
//SYSPRINT   DD SYSOUT=*
//FOCEXEC    DD DSN=h1q.FOCEXEC.DATA,DISP=SHR
//MASTER     DD DSN=h1q.MASTER.DATA,DISP=SHR
//ACCESS     DD DSN=user.ACCESS.LIBRARY,DISP=SHR
//SYSIN DD *
            ENGINE SQLDBC ?
            FIN
/*

```

Where:

h1q

Is the high-level qualifier for your FOCUS production data sets.

user

Is the high-level qualifier for the private version of a data set.

In this example, **hlq**.FOCUS.DBCCLI.CFG has the members EDASERVE and FOCPROF in them.

If the job produces a list of SET parameter values, the adapter installation is verified.

Creating a CLIST to Invoke FOCUS Interactively

Create a CLIST by editing the following sample CLIST to conform to the standards at your site.

```
ALLOC F(ERRORS) DA('hlq.DBCCLI.CFG' +
                  'hlq.ERRORS.DATA') SHR REUSE
ALLOC F(FOCLIB) DA('hlq.FOCLIB.LOAD') SHR REUSE
ALLOC F(FOCEXEC) DA('hlq.FOCEXEC.DATA') SHR REUSE
ALLOC F(MASTER) DA('hlq.MASTER.DATA') SHR REUSE
ALLOC F(ACCESS) DA('user.ACCESS.LIBRARY') SHR REUSE
CALL 'hlq.FOCLIB.LOAD(FOCUS)'
```

Where:

hlq

Is the high-level qualifier for your FOCUS production data sets.

user

Is the high-level qualifier for the private version of a data set.

In this example, **hlq**.DBCCLI.CFG has the members EDASERVE and FOCPROF in them.

Use your CLIST to invoke FOCUS, and issue the following command at the FOCUS prompt.

```
ENGINE SQLDBC ?
```

If the command produces a list of SET parameter values, the adapter installation is verified.

Issue the following command to exit FOCUS.

```
FIN
```

Upgrading From a FOCUS Release Prior to 7.7

If you are upgrading from a version of FOCUS prior to 7.7, do the following.

- Copy the original JCL or CLIST.
- Change the high-level qualifiers to point to the FOCUS 7.7 production data sets.
- Create the EDASERVE member (and, optionally, the FOCPROF member).

ibi Documentation and Support Services

For information about this product, you can read the documentation, contact Support, and join Community.

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Documentation for ibi products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The documentation for this product is available on the [ibi™ FOCUS® Documentation](#) page.

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- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

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